

IN THE SPECIFICATION:

Please replace the paragraph that begins on page 1, line 3, with the following rewritten paragraph:

Conventional electronic ballasts include a rectifier and filter circuit, a DC/AC inverter circuit, a resonant circuit and the like. At present, however, some ballasts ~~can go on work~~ keep on working when the lamp filament is disconnected, ~~at~~. During this time, it is possible to break and melt the lamp and ~~to thereby~~ cause hydrargyrum leakage, ~~this which~~ is a serious hidden danger for safety.

Please replace the paragraph that begins on page 1, line 8, with the following rewritten paragraph:

An object of the invention is to provide an electronic ballast ~~with a function~~ of having life-ended protection, which can stop the ballast when the lamp filament is disconnected.

Please replace the paragraph that begins on page 1, line 19 with the following rewritten paragraph:

A feedback drive transformer which is connected to the ~~lamp~~-filament current loop at its primary winding and to the input of the DC/AC inverter circuit at its secondary winding is used for the ~~said~~-feedback driver circuit.

Please replace the paragraph that begins on page 1, line 22 with the following rewritten paragraph:

A filament capacitor loop connected to the input of the feedback driver circuit at its output is used for the ~~said lamp~~-filament capacitor circuit.

Please replace the paragraph that begins on page 1, line 24 with the following rewritten paragraph:

A filament capacitor loop used for the ~~said lamp~~ filament capacitor circuit includes a capacitor and a thermal resistor in parallel. An input of the filament capacitor loop is connected to one end of the lamp, its output is connected to the primary winding of the feedback drive transformer, and an output of the primary winding is connected to the other end of the lamp. The secondary winding of the feedback drive transformer is connected ~~for providing~~ to provide a drive power to the bases of the two triodes of the DC/AC inverter circuit, respectively.

Please replace the paragraph that begins on page 2, line 6 with the following rewritten paragraph:

The present invention provides a feedback driver system for deriving the filament current from the filament capacitor, ~~where the filament capacitor is directly connected with to the lamp filament, the~~ The filament capacitor is disconnected from the lamp when the filament is broken, thus, thereby stopping the feedback drive is stopped immediately, the As a result, the DC/AC inverter circuit has no drive power and the system is stopped stops operating. It should be appreciated that the above results may still be obtained, even if there are ~~There are various changes to the in detail circuit, but the effect may be obtained so~~ as long as the filament current feedback drive is combined with the circuit.

Please replace the paragraph that begins on page 3, line 7 with the following rewritten paragraph:

As shown in Fig.2, S1, S2 are inputs of power ~~source~~ sources. The rectifier and filter circuit is composed of a fuse FU, capacitors C and C1, an inductor L1, and rectifier diodes D1, D2, D3, and D4. The DC/AC inverter is composed of triodes V1, V2 and their peripheral devices. The LC series resonant circuit is composed of an inductor L2 and capacitors C4, C6. A capacitor C5 and a thermal resistor PTC connected in parallel are formed into the filament capacitor circuit that is connected to one end of the lamp at its input. The primary winding (primary turns) ~~1-2~~ 1'-2' of the feedback drive transformer T is connected in series with the filament capacitor circuit and is connected to the other end of the lamp, and the secondary windings (secondary turns) ~~3-4, 5-6~~ 3'-4', 5'-6' are connected to the bases of the triodes V1, V2 of DC/AC inverter circuit for providing them with a drive power, respectively.

Please replace the paragraph that begins on page 3, line 17 with the following rewritten paragraph:

When the lamp filament is disconnected, the charging circuit for the capacitor C5 of filament capacitor circuit is turned off, and voltage across the capacitor C5 is approximate equal to 0 due to presence of the thermal resistor PTC. At the same time, the primary winding ~~1-2~~ 1'-2' of the feedback drive transformer T is powered off so as not to drive the secondary windings (secondary turns) ~~3-4, 5-6~~ 3'-4', 5'-6' connected to the bases of the triodes V1, V2 of DC/AC inverter circuit, thereby causing the system ~~stops to stop~~ operating. That is, when the ~~lamp's life~~ lamp's power is terminated (the filament is disconnected), ~~it may~~ the present invention helps to prevent the possibility of breaking and melting to cause of the lamp and the occurrence of hydrargyrum leakage, so the object of life-ended protection is obtained.

Please replace the paragraph that begins on page 3, line 26 with the following rewritten paragraph:

As shown in Fig.3, the DC/AC inverter circuit 2 is ~~some~~ different from the first embodiment, ~~this is the most difference~~. The filament capacitor circuit is comprised of a capacitor C5, a thermal resistor PTC and a resistor 8 connected in parallel. The primary winding (primary turns) ~~1-2-1'-2'~~ of feedback drive transformer T is connected in series with the filament capacitor circuit and is connected to the other end of the lamp, and the secondary windings (secondary turns) ~~3-4, 5-6-3'-4', 5'-6'~~ are connected to bases of triodes V1, V2 of DC/AC inverter circuit for providing them with a drive power, ~~respectively,~~ respectively.

Please replace the paragraph that begins on page 4, line 3 with the following rewritten paragraph:

~~The invention gist explained by this~~ This embodiment is using-uses the electrical signals of filament current loop 4 connected to the DC/AC inverter circuit 2 through the feedback driver circuit 5 to control oscillation of the resonant circuit 3 ~~so that the to obtain~~ life-ended protection is obtained. ~~That is~~ The above embodiments are adaptable to various circuits.

Please replace the sentence that begins on page 4, line 7 with the following rewritten sentence:

The following are types and parameters of each of the main elements shown in Fig.2-:

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Please replace the paragraph beginning on page 4, line 22 with the following rewritten paragraph:

The electronic ballast with life-ended protection according to the present invention is an improvement ~~for~~ over the electronic ballast in the prior art. ~~It is mainly to select~~ The invention mainly selects the feed back circuit and its signal sample ~~points, points~~ where the main elements ~~used~~ are all standard devices; ~~the~~ The manufacture of the ballast is simple, and ~~a~~ the ballast has good industrial applicability ~~is obtained~~.